



GREYSTONE ENERGY SYSTEMS INC

OUTSIDE HUMIDITY TRANSMITTER RH300A Series

The RH300 series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. A 60 micron HDPE filter protects the sensor for contaminants. It is available in 2 weatherproof enclosure types that provide ease of installation and protection from the elements.

SPECIFICATION:

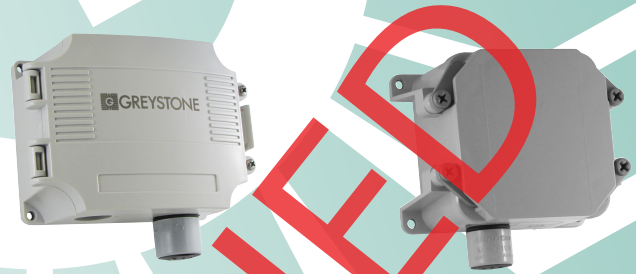
Sensor Type Thermoset Polymer based Capacitive
 Range..... 0 to 100% RH
 Accuracy ±2, 3, or 5% RH (5 to 95% RH)
 Response 15 Seconds typical
 Temp Dependence ±0.05% RH/ °C
 Hysteresis ±1.5% RH maximum
 Repeatability..... ±0.5% RH typical
 Linearity..... ±0.5% RH typical
 Operating Range -40 to 85°C (-40 to 185°F)
 Power Supply 18 to 30 Vdc, 15 to 26 Vac
 Consumption 22 mA maximum
 Protection Circuitry..... Reverse voltage protected and output limited
 Output Signal..... 4-20 mA current loop, 0-5 or 0-10 Vdc (jumper-selectable)
 Output Drive @ 24Vdc..... 550 ohms max for current output
 10K ohms min for voltage output
 Internal Adjustments..... Clearly marked ZERO and SPAN pots
 Optional Temp..... RTD's or Thermistors - See ordering chart
 Enclosures **A:** ABS, UL94-5VB, IP65 (NEMA 4X)
P: PVC, IP65 (NEMA 4X)
 Termination Screw terminal block (14 20 22 AWG)

TYPICAL INSTALLATION:

For complete installation and wiring details, please refer to the product installation instructions.

The RH300 should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The RH300 can be mounted directly to buildings wall face using the provided mounting holes. There are 0.85" holes for conduit connection.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH300	Outside Air Humidity Transmitter

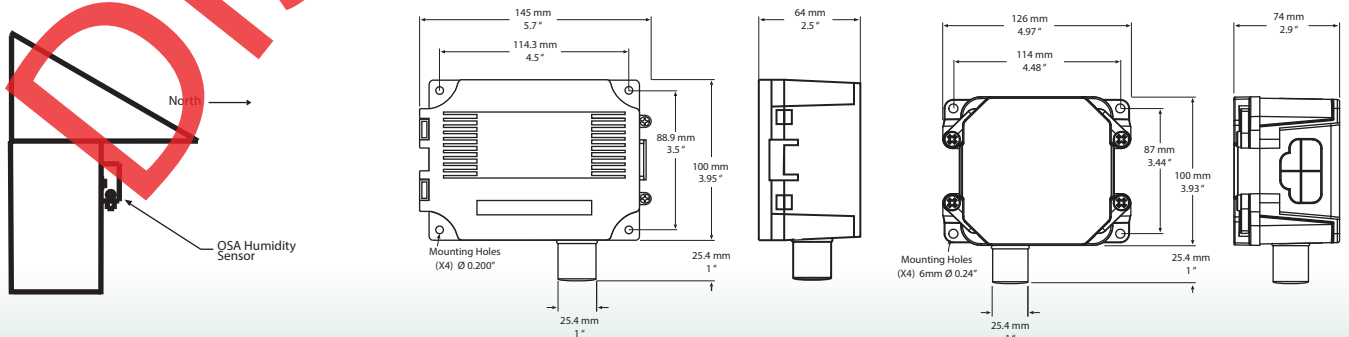
CODE	Enclosure
A	ABS
P	PVC

CODE	Accuracy
02	2%
03	3%
05	5%

CODE	Optional Temperature Sensor
L	100 Ω Plat. IEC 751, 385 Alpha, thin film
C	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
F	1801 Ω, NTC Thermistor, ±0.2 C
E	3000 Ω, NTC Thermistor, ±0.2 C
D	10,000 Ω, Type 3, NTC Thermistor, ±0.2 C
J	10,000 Ω, Type 2, NTC Thermistor, ±0.2 C
K	20,000 Ω, NTC Thermistor, ±0.2 C
M	1000 Ω Nickel, Class B, DIN 43760
B	10,000 Ω, Type 3, NTC Therm, ±0.2 C w/ 11K shunt resistor
G	2,252K Ω, NTC Thermistor, ±0.2 C

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Dimensions:



Greystone Energy Systems, Inc. (506) 853-3057 Fax: (506) 853-6014
 150 English Drive, Moncton, North America: 1-800-561-5611
 New Brunswick, Canada E1E 4G7 e-mail: mail@greystoneenergy.com
 www.greystoneenergy.com

RoHS COMPLIANT

